FIG. 1

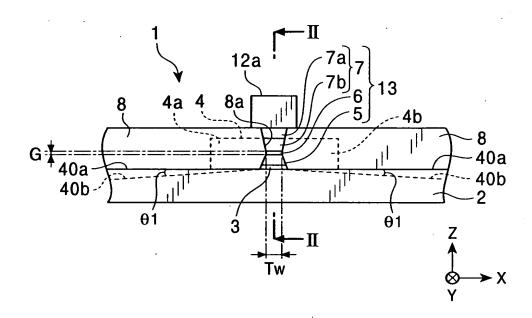


FIG. 3

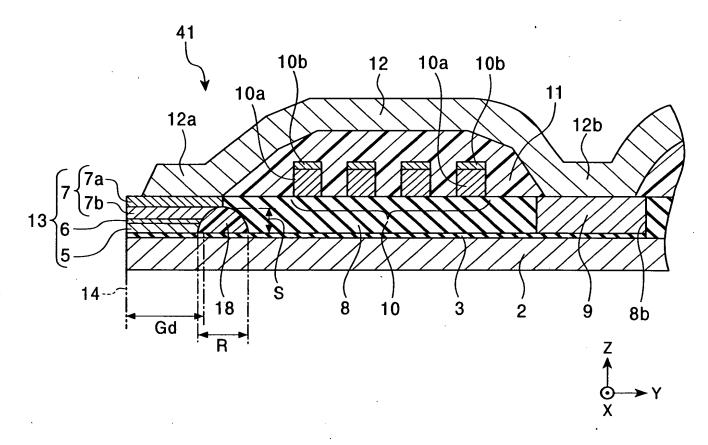


FIG. 4

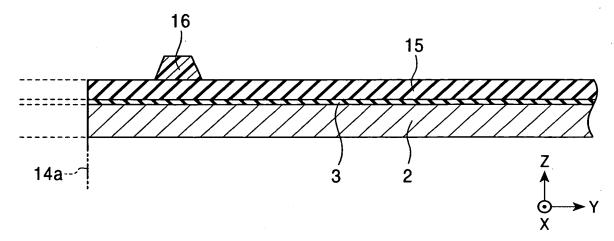


FIG. 5

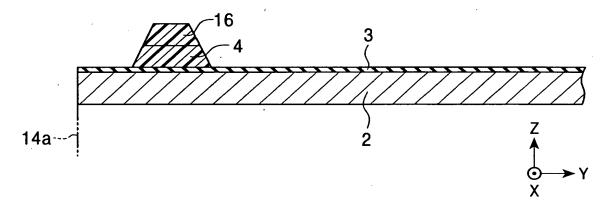


FIG. 6

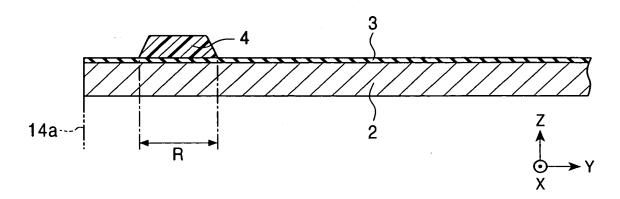


FIG. 7

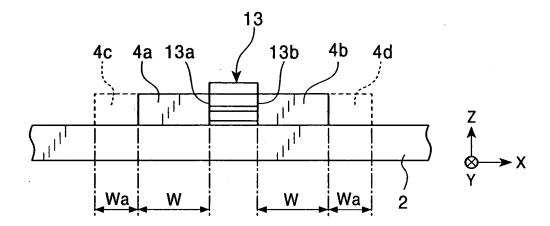


FIG. 8

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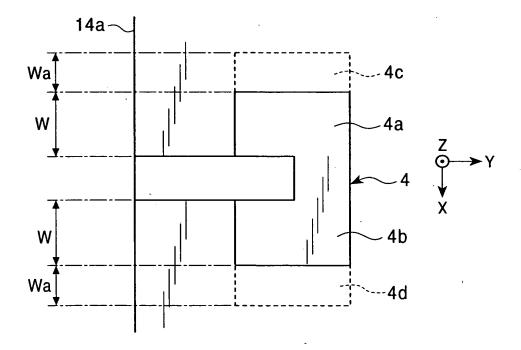


FIG. 9

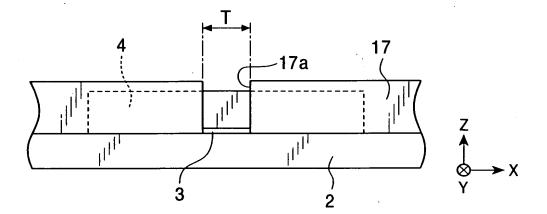


FIG. 10

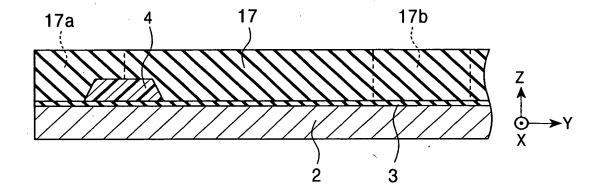


FIG. 11

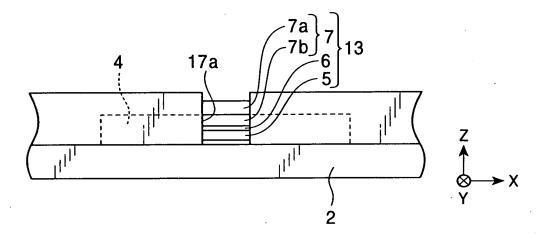


FIG. 12

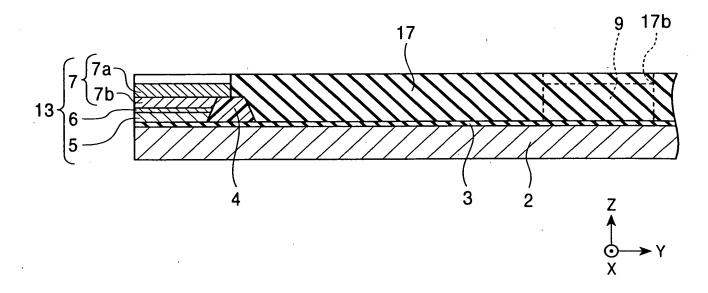
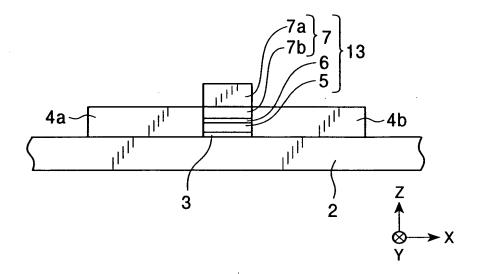


FIG. 13



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FIG. 14

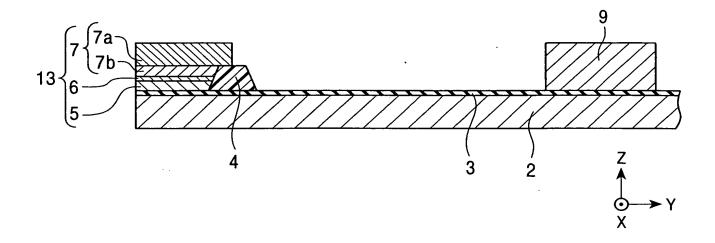


FIG. 15

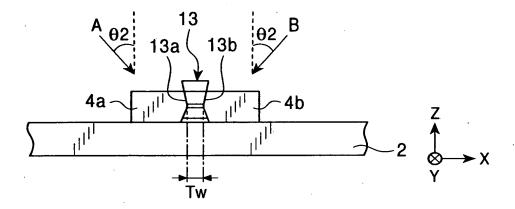


FIG. 16

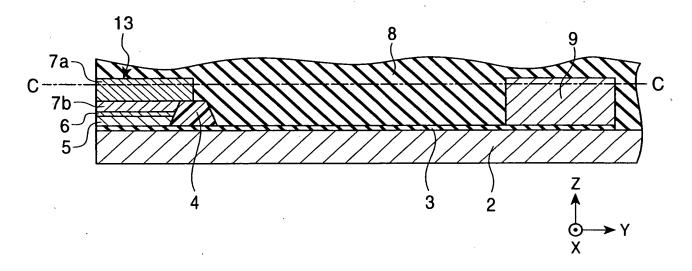


FIG. 17

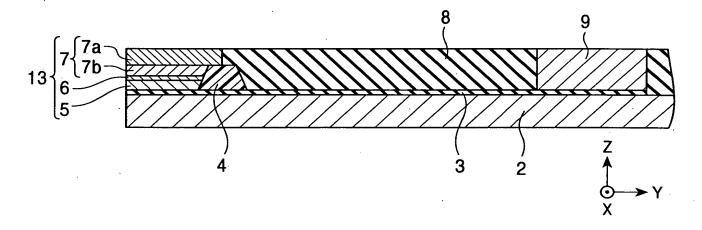


FIG. 18

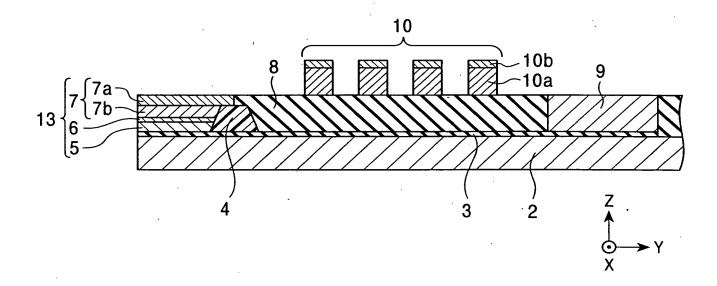


FIG. 19

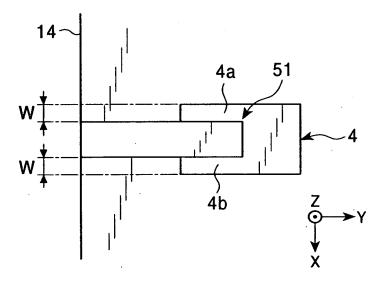


FIG. 20

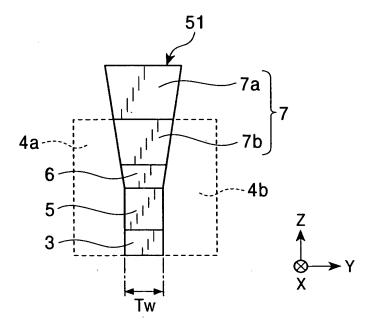


FIG. 21

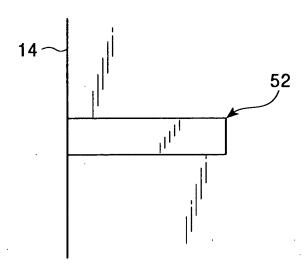
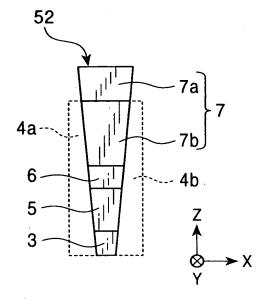
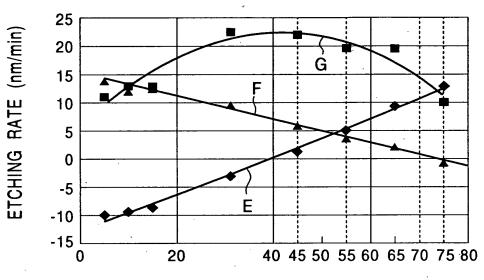


FIG. 22



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FIG. 23



ION IRRADIATION ANGLE (DEGREE)

- ◆ ETCHING RATE AT SIDES OF POLE SECTION
- ETCHING RATE AT UPPER SURFACE OF UPPER POLE LAYER
- ▲ ETCHING RATE AT UPPER SURFACE OF LOWER CORE LAYER AT BOTH SIDES OF POLE SECTION

FIG. 24 PRIOR ART

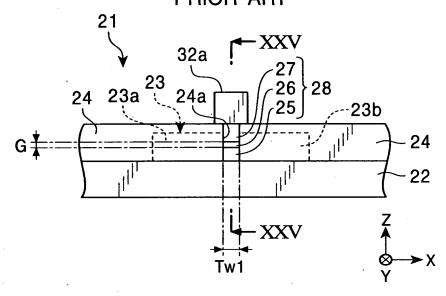


FIG. 25 PRIOR ART

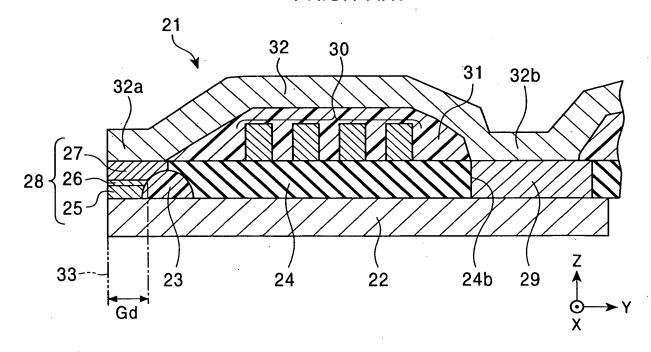


FIG. 26 PRIOR ART

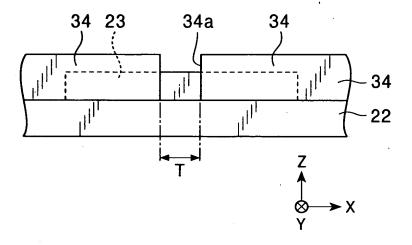


FIG. 27 PRIOR ART

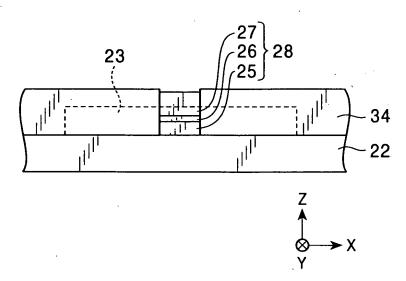


FIG. 28 PRIOR ART

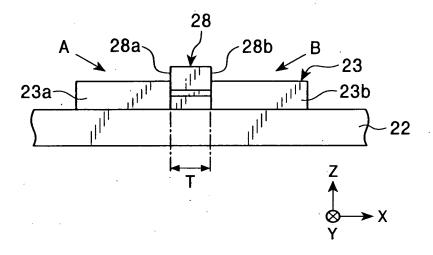
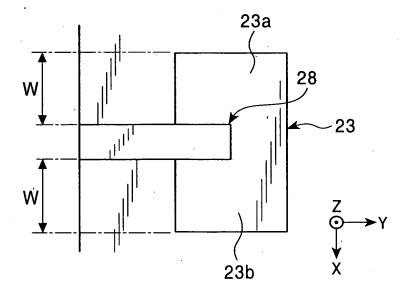


FIG. 29 PRIOR ART



 $16 \angle 17$

FIG. 30 PRIOR ART

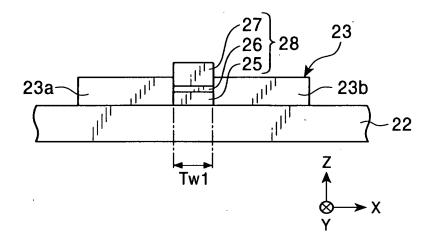
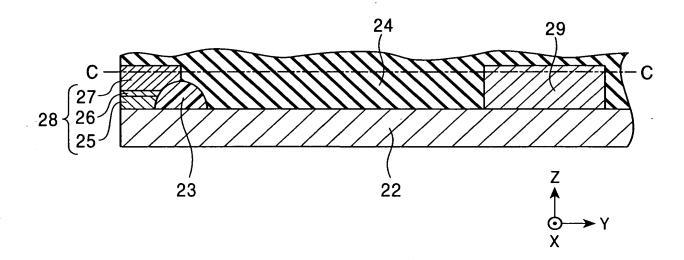


FIG. 31 PRIOR ART



 $17 \angle 17$

FIG. 32 PRIOR ART

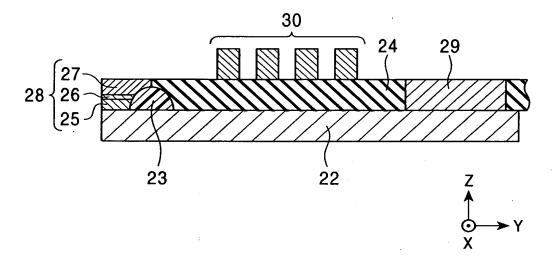


FIG. 33 PRIOR ART

